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What is claimed is:

1. A method for treating or preventing a neoplasia disorder in a mammal in need of such treatment or prevention, which method comprises administering to the mammal a therapeutically-effective amount of a combination of a cyclooxygenase-2 inhibitor and one or more antineoplastic agents, wherein said antineoplastic agents are selected from the group consisting of anastrozole, calcium carbonate, capecitabine, carboplatin, cisplatin, Cell Pathways CP-461, docetaxel, doxorubicin, etoposide, fluoxymestrine, gemcitabine, goserelin, irinotecan, ketoconazole, letrozol, leucovorin, levamisole, megestrol, mitoxantrone, paclitaxel, raloxifene, retinoic acid, tamoxifen, thiotepa, topotecan, toremifene, vinorelbine, vinblastine, vincristine, selenium (selenomethionine), sulindac sulfone, exemestane, and eflornithine (DFMO).
2. The method of Claim 1 wherein the combination is administered in a sequential manner.
3. The method of Claim 1 wherein the combination is administered in a substantially simultaneous manner.
4. The method of Claim 1 wherein the antineoplastic agent is capecitabine.
5. The method of Claim 1 wherein the antineoplastic agent is carboplatin.
6. The method of Claim 1 wherein the antineoplastic agent is cisplatin.

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7. The method of Claim 1 wherein the antineoplastic agent is Cell Pathways CP-461.

8. The method of Claim 1 wherein the antineoplastic agent is docetaxel.

5 9. The method of Claim 1 wherein the antineoplastic agent is doxorubicin.

10. The method of Claim 1 wherein the antineoplastic agent is etoposide.

10 11. The method of Claim 1 wherein the antineoplastic agent is fluoxymestrine.

12. The method of Claim 1 wherein the antineoplastic agent is gemcitabine.

13. The method of Claim 1 wherein the antineoplastic agent is goserelin.

15 14. The method of Claim 1 wherein the antineoplastic agent is irinotecan.

15. The method of Claim 1 wherein the antineoplastic agent is ketoconazole.

20 16. The method of Claim 1 wherein the antineoplastic agent is letrozol.

17. The method of Claim 1 wherein the antineoplastic agent is leucovorin.

18. The method of Claim 1 wherein the antineoplastic agent is levamisole.

25 19. The method of Claim 1 wherein the antineoplastic agent is megestrol.

20. The method of Claim 1 wherein the antineoplastic agent is mitoxantrone.

30 21. The method of Claim 1 wherein the antineoplastic agent is paclitaxel.

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22. The method of Claim 1 wherein the antineoplastic agent is raloxifene.

23. The method of Claim 1 wherein the antineoplastic agent is retinoic acid.

5 24. The method of Claim 1 wherein the antineoplastic agent is tamoxifen.

25. The method of Claim 1 wherein the antineoplastic agent is thiotepa.

10 26. The method of Claim 1 wherein the antineoplastic agent is topotecan.

27. The method of Claim 1 wherein the antineoplastic agent is toremifene.

28. The method of Claim 1 wherein the antineoplastic agent is vinorelbine.

15 29. The method of Claim 1 wherein the antineoplastic agent is vinblastine.

30. The method of Claim 1 wherein the antineoplastic agent is vincristine.

20 31. The method of Claim 1 wherein the antineoplastic agent is selenium (selenomethionine).

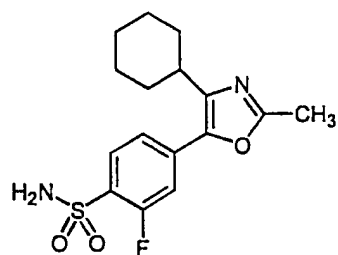
32. The method of Claim 1 wherein the antineoplastic agent is sulindac sulfone.

33. The method of Claim 1 wherein the antineoplastic agent is eflornithine (DFMO).

25 34. The method of Claim 1 wherein the cyclooxygenase-2 inhibitor is selected from compounds, and their pharmaceutically acceptable salts thereof, of the group consisting of:

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1)



JTE-522, 4-(4-cyclohexyl-2-methyloxazol-5-yl)-
2-fluorobenzenesulfonamide,

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2)

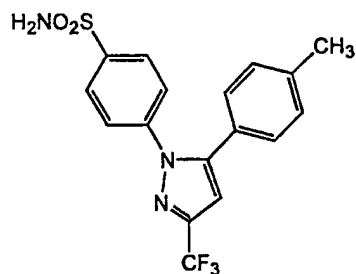
5-chloro-3-(4-(methylsulfonyl)phenyl)-2-
(methyl-5-pyridinyl)pyridine,

3)

2-(3,5-difluorophenyl)-3-4-
(methylsulfonyl)phenyl)-2-cyclopenten-1-one,

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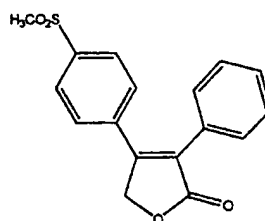
4)



4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-
pyrazol-1-yl]-benzenesulfonamide,

-180-

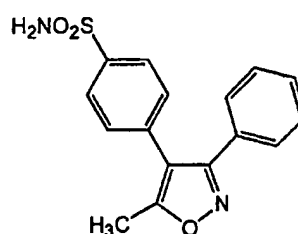
5)



rofecoxib, 4-(4-(methylsulfonyl)phenyl)-3-phenyl-2(5H)-furanone,

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6)



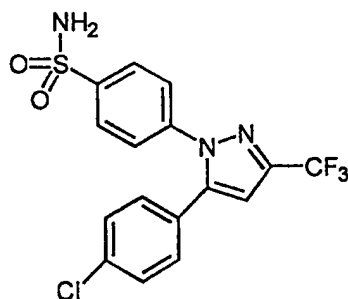
4-(5-methyl-3-phenylisoxazol-4-yl)benzenesulfonamide,

7)

N-[[4-(5-methyl-3-phenylisoxazol-4-yl)phenyl]sulfonyl]propanamide,

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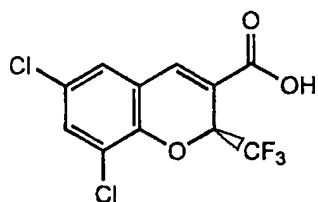
8)



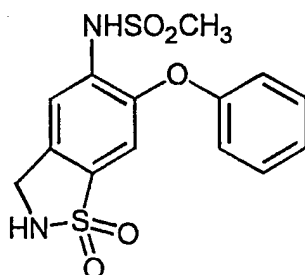
4-[5-(4-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazole-1-yl]benzenesulfonamide,

-181-

9)

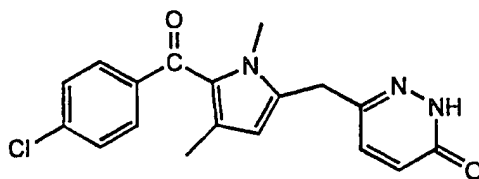


10)



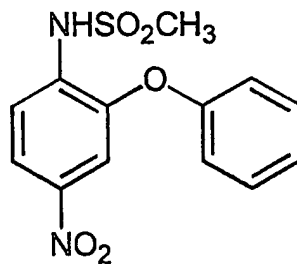
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11)



6-[[5-(4-chlorobenzoyl)-1,4-dimethyl-1H-pyrrol-2-yl]methyl]-3(2H)-pyridazinone,

12)



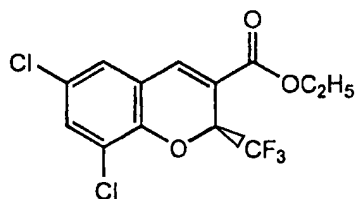
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N-(4-nitro-2-phenoxyphenyl)methanesulfonamide,

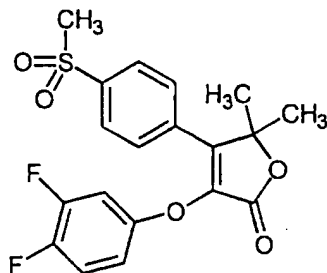
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13)

-182-



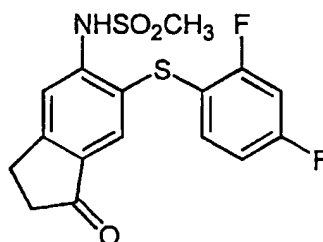
14)



3-(3,4-difluorophenoxy)-5,5-dimethyl-4-[4-(methanesulfonyl)phenyl]-2(5H)-furanone,

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15)

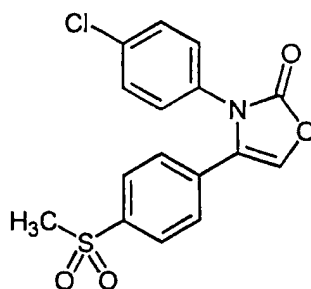


N-[6-[(2,4-difluorophenyl)thio]-2,3-dihydro-1-oxo-1H-inden-5-yl]methanesulfonamide,

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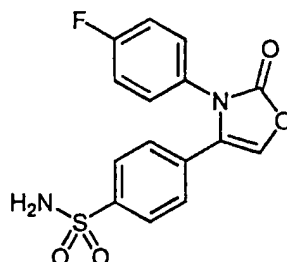
16)



3-(4-chlorophenyl)-4-[4-(methylsulfonyl)phenyl]-2(3H)-oxazolone,

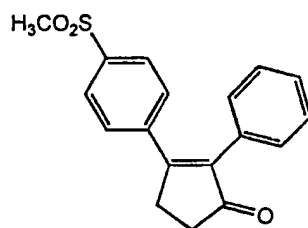
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17)



4-[3-(4-fluorophenyl)-2,3-dihydro-2-oxo-4-oxazolyl]benzenesulfonamide,

18)

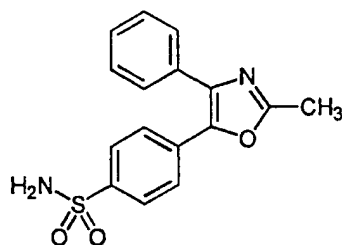


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3-[4-(methylsulfonyl)phenyl]-2-phenyl-2-cyclopenten-1-one,

-184-

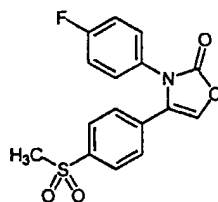
19)



4-(2-methyl-4-phenyl-5-oxazolyl)benzenesulfonamide,

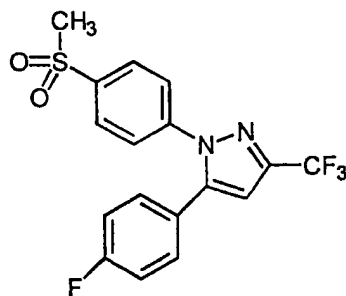
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20)



3-(4-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]-2(3H)-oxazolone,

21)

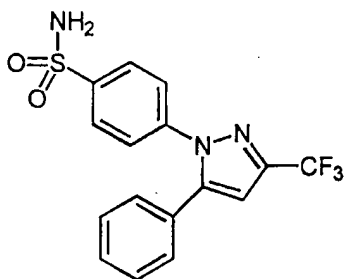


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5-(4-fluorophenyl)-1-[4-(methylsulfonyl)phenyl]-3-(trifluoromethyl)-1H-pyrazole,

-185-

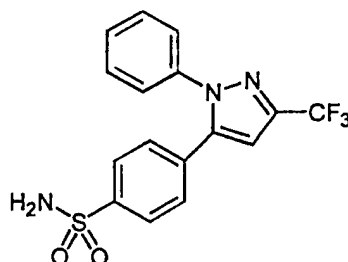
22)



4-[5-phenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

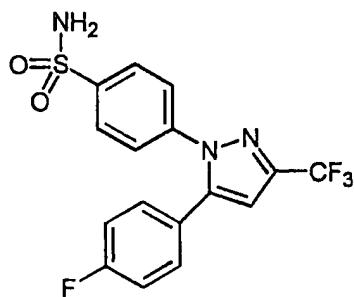
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23)



4-[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]benzenesulfonamide,

24)

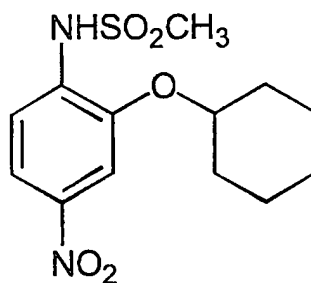


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4-[5-(4-fluorophenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

-186-

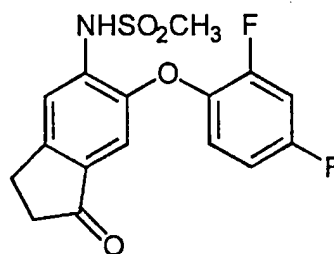
25)



N-[2-(cyclohexyloxy)-4-nitrophenyl]methanesulfonamide,

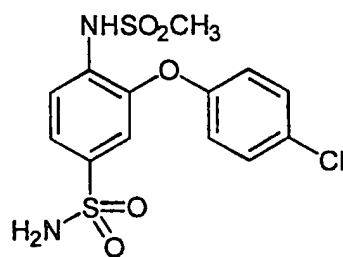
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26)



N-[6-(2,4-difluorophenoxy)-2,3-dihydro-1-oxo-1H-inden-5-yl]methanesulfonamide,

27)

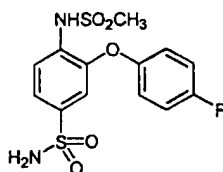


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3-(4-chlorophenoxy)-4-[(methanesulfonyl)amino]benzenesulfonamide,

-187-

28)

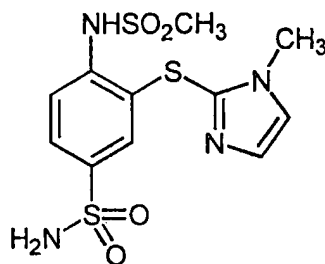


3-(4-fluorophenoxy)-4-

[(methylsulfonyl)amino]benzenesulfonamide,

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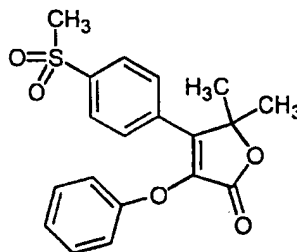
29)



3-[(1-methyl-1H-imidazol-2-yl)thio]-4

[(methylsulfonyl)amino]benzenesulfonamide,

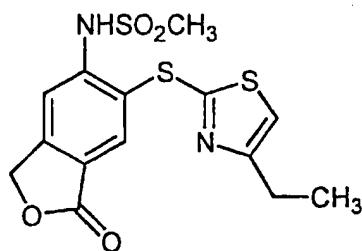
30)



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5,5-dimethyl-4-[4-(methylsulfonyl)phenyl]-3-
phenoxy-2(5H)-furanone,

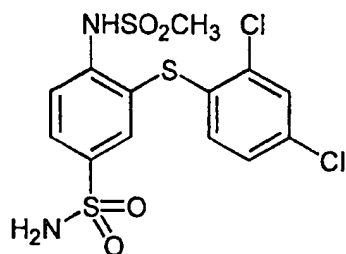
31)



N-[6-[(4-ethyl-2-thiazolyl)thio]-1,3-dihydro-1-oxo-5-isobenzofuranyl]methanesulfonamide,

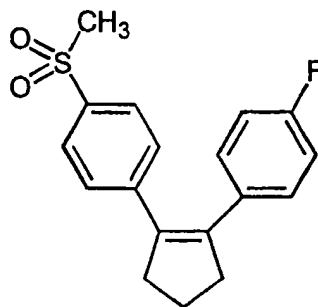
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32)



3-[(2,4-dichlorophenyl)thio]-4-[(methanesulfonyl)amino]benzenesulfonamide,

33)

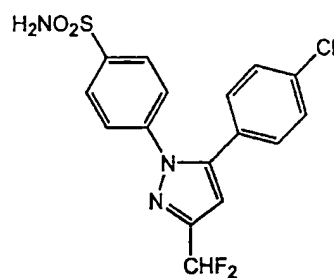


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1-fluoro-4-[2-[4-(methanesulfonyl)phenyl]cyclopenten-1-yl]benzene,

-189-

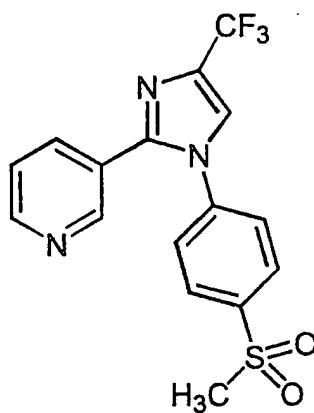
34)



4-[5-(4-chlorophenyl)-3-(difluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

5

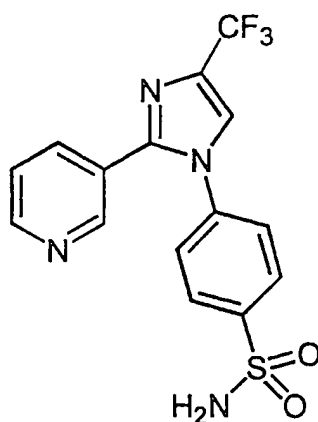
35)



3-[1-[4-(methylsulfonyl)phenyl]-4-(trifluoromethyl)-1H-imidazol-2-yl]pyridine,

-190-

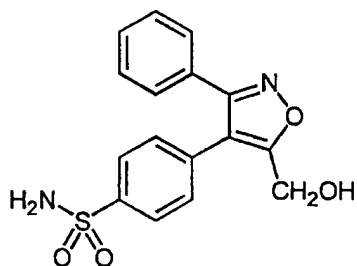
36)



4-[2-(3-pyridinyl)-4-(trifluoromethyl)-1H-imidazol-1-yl]benzenesulfonamide,

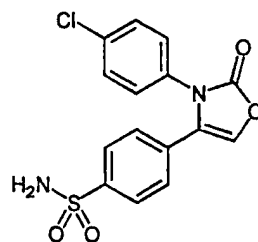
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37)



4-[5-(hydroxymethyl)-3-phenylisoxazol-4-yl]benzenesulfonamide,

38)

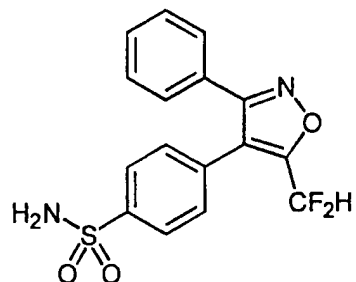


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4-[3-(4-chlorophenyl)-2,3-dihydro-2-oxo-4-oxazolyl]benzenesulfonamide,

-191-

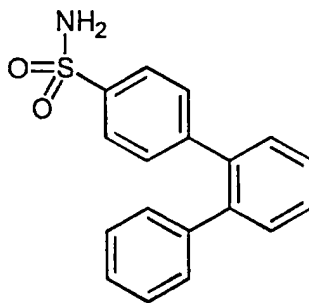
39)



4-[5-(difluoromethyl)-3-phenylisoxazol-4-yl]benzenesulfonamide,

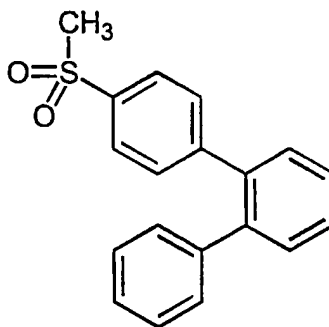
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40)



[1,1':2',1''-terphenyl]-4-sulfonamide,

41)

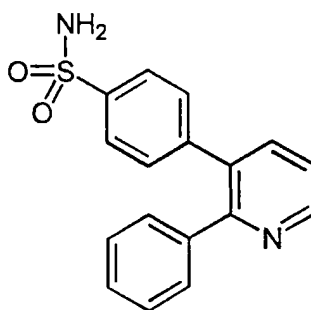


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4-(methylsulfonyl)-1,1',2],1''-terphenyl,

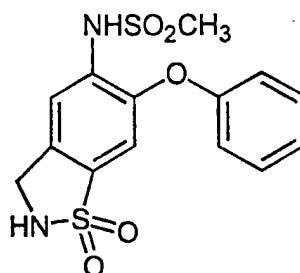
-192-

42)



4-(2-phenyl-3-pyridinyl)benzenesulfonamide,

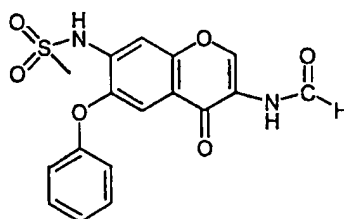
43)



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N-(2,3-dihydro-1,1-dioxido-6-phenoxy-1,2-benzisothiazol-5-yl)methanesulfonamide, and

44)

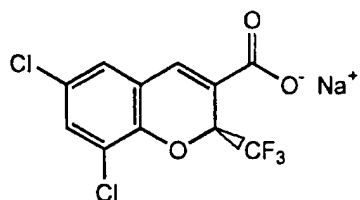


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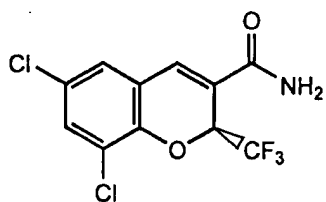
N-[3-(formylamino)-4-oxo-6-phenoxy-4H-1-benzopyran-7-yl]methanesulfonamide,

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45)

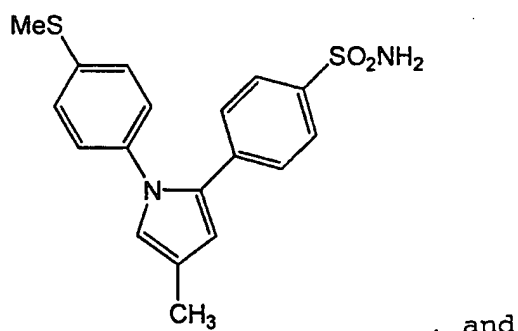


46)



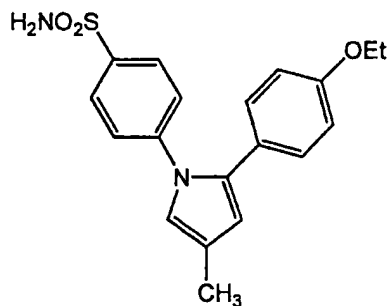
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47)



, and

48)

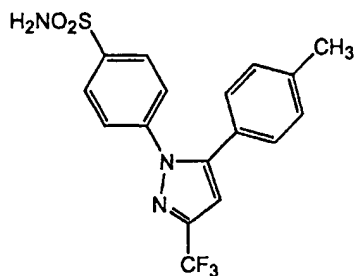


35. The method of Claim 1 wherein the
10 cyclooxygenase-2 inhibitor is 5-chloro-3-(4-(methylsulfonyl)phenyl)-2-(methyl-5-pyridinyl)pyridine.

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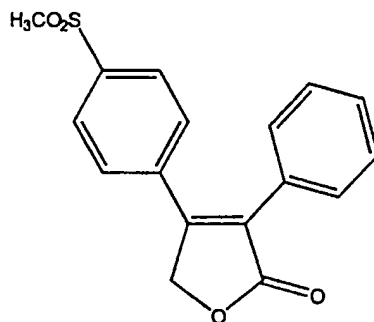
36. The method of Claim 1 wherein the cyclooxygenase-2 inhibitor is 2-(3,5-difluorophenyl)-3-4-(methylsulfonyl)phenyl)-2-cyclopenten-1-one.

37. The method of Claim 1 wherein the
5 cyclooxygenase-2 inhibitor is



4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide.

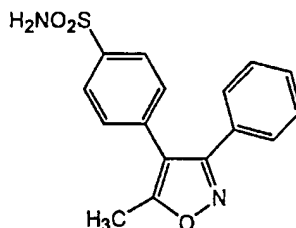
38. The method of Claim 1 wherein the
10 cyclooxygenase-2 inhibitor is



rofecoxib, 4-(4-(methylsulfonyl)phenyl)-3-phenyl-2(5H)-furanone.

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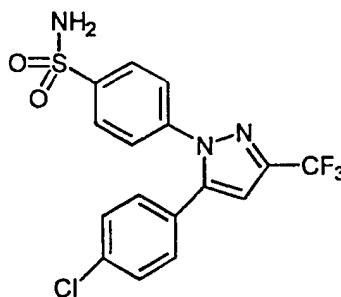
39. The method of Claim 1 wherein the cyclooxygenase-2 inhibitor is



5 4-(5-methyl-3-phenylisoxazol-4-yl)benzenesulfonamide.

40. The method of Claim 1 wherein the cyclooxygenase-2 inhibitor is N-[[4-(5-methyl-3-phenylisoxazol-4-yl)phenyl]sulfonyl]propanamide.

41. The method of Claim 1 wherein the
10 cyclooxygenase-2 inhibitor is



4-[5-(4-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazole-1-yl]benzenesulfonamide.

42. The method of Claim 1 wherein the neoplasia is
15 selected from the group consisting of lung cancer, breast cancer, gastrointestinal cancer, bladder cancer, head and neck cancer and cervical cancer.

43. The method of Claim 1 wherein the neoplasia is
20 selected from the group consisting of acral lentiginous melanoma, actinic keratoses, adenocarcinoma, adenoid cystic carcinoma, adenomas, adenocarcinoma, adenoid cystic carcinoma, astrocytic tumors, Bartholin gland carcinoma,

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basal cell carcinoma, bronchial gland carcinomas,
capillary, carcinoids, carcinoma, carcinosarcoma,
cavernous, cholangiocarcinoma, chondrosarcoma, choriod
plexus papilloma/carcinoma, clear cell carcinoma,
5 cystadenoma, endodermal sinus tumor, endometrial
hyperplasia, endometrial stromal sarcoma, endometrioid
adenocarcinoma, ependymal, epitheloid, Ewing's sarcoma,
fibrolamellar, focal nodular hyperplasia, gastrinoma,
germ cell tumors, glioblastoma, glucagonoma,
10 hemangiblastomas, hemangioendothelioma, hemangiomas,
hepatic adenoma, hepatic adenomatosis, hepatocellular
carcinoma, insulinoma, intraepithelial neoplasia,
interepithelial squamous cell neoplasia, invasive
squamous cell carcinoma, large cell carcinoma,
15 leiomyosarcoma, lentigo maligna melanomas, malignant
melanoma, malignant mesothelial tumors, medulloblastoma,
medulloepithelioma, melanoma, meningeal, mesothelial,
metastatic carcinoma, mucoepidermoid carcinoma,
neuroblastoma, neuroepithelial adenocarcinoma nodular
20 melanoma, oat cell carcinoma, oligodendroglial,
osteosarcoma, pancreatic polypeptide, papillary serous
adenocarcinoma, pineal cell, pituitary tumors,
plasmacytoma, pseudosarcoma, pulmonary blastoma, renal
cell carcinoma, retinoblastoma, rhabdomyosarcoma,
25 sarcoma, serous carcinoma, small cell carcinoma, soft
tissue carcinomas, somatostatin-secreting tumor,
squamous carcinoma, squamous cell carcinoma,
submesothelial, superficial spreading melanoma,
undifferentiated carcinoma, uveal melanoma, verrucous
30 carcinoma, vipoma, well differentiated carcinoma, and
Wilm's tumor.

-197-

44. A method for treating or preventing a neoplasia disorder in a mammal in need of such treatment or prevention, which method comprises administering to the mammal a therapeutically effective amount of a combination of radiation therapy, a cyclooxygenase-2 inhibitor, and one or more antineoplastic agents, wherein said antineoplastic agents are selected from the group consisting of anastrozole, calcium carbonate, capecitabine, carboplatin, cisplatin, Cell Pathways CP-461, docetaxel, doxorubicin, etoposide, fluoxymestrine, gemcitabine, goserelin, irinotecan, ketoconazole, letrozol, leucovorin, levamisole, megestrol, mitoxantrone, paclitaxel, raloxifene, retinoic acid, tamoxifen, thiotepa, topotecan, toremifene, vinorelbine, vinblastine, vincristine, selenium (selenomethionine), sulindac sulfone, exemestane and eflornithine (DFMO).

45. The method of Claim 44 wherein the neoplasia is selected from the group consisting of acral lentiginous melanoma, actinic keratoses, adenocarcinoma, adenoid cystic carcinoma, adenomas, adenosarcoma, adenosquamous carcinoma, astrocytic tumors, Bartholin gland carcinoma, basal cell carcinoma, bronchial gland carcinomas, capillary, carcinoids, carcinoma, carcinosarcoma, cavernous, cholangiocarcinoma, chondrosarcoma, choroid plexus papilloma/carcinoma, clear cell carcinoma, cystadenoma, endodermal sinus tumor, endometrial hyperplasia, endometrial stromal sarcoma, endometrioid adenocarcinoma, ependymal, epitheloid, Ewing's sarcoma, fibrolamellar, focal nodular hyperplasia, gastrinoma, germ cell tumors, glioblastoma, glucagonoma, hemangioblastomas, hemangioendothelioma,

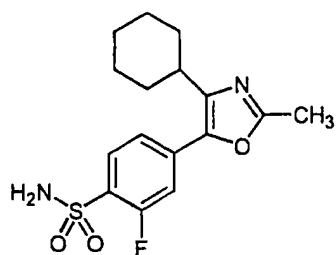
-198-

hemangiomas, hepatic adenoma, hepatic adenomatosis,
hepatocellular carcinoma, insulinoma, intraepithelial
neoplasia, interepithelial squamous cell neoplasia,
invasive squamous cell carcinoma, large cell carcinoma,
5 leiomyosarcoma, lentigo maligna melanomas, malignant
melanoma, malignant mesothelial tumors, medulloblastoma,
medulloepithelioma, melanoma, meningeal, mesothelial,
metastatic carcinoma, mucoepidermoid carcinoma,
neuroblastoma, neuroepithelial adenocarcinoma nodular
10 melanoma, oat cell carcinoma, oligodendroglial,
osteosarcoma, pancreatic polypeptide, papillary serous
adenocarcinoma, pineal cell, pituitary tumors,
plasmacytoma, pseudosarcoma, pulmonary blastoma, renal
cell carcinoma, retinoblastoma, rhabdomyosarcoma,
15 sarcoma, serous carcinoma, small cell carcinoma, soft
tissue carcinomas, somatostatin-secreting tumor,
squamous carcinoma, squamous cell carcinoma,
submesothelial, superficial spreading melanoma,
undifferentiated carcinoma, uveal melanoma, verrucous
20 carcinoma, vipoma, well differentiated carcinoma, and
Wilm's tumor.

46. The method of Claim 44 wherein the
cyclooxygenase-2 inhibitor is selected from compounds,
and their pharmaceutically acceptable salts thereof, of
25 the group consisting of:

-199-

1)



JTE-522, 4-(4-cyclohexyl-2-methyloxazol-5-yl)-
2-fluorobenzenesulfonamide,

5

2)

5-chloro-3-(4-(methylsulfonyl)phenyl)-2-
(methyl-5-pyridinyl)pyridine,

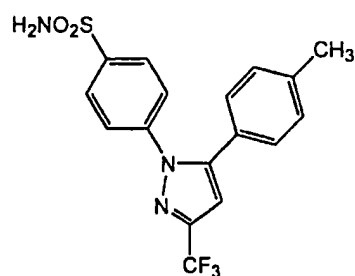
3)

2-(3,5-difluorophenyl)-3-4-

10

(methylsulfonyl)phenyl)-2-cyclopenten-1-one,

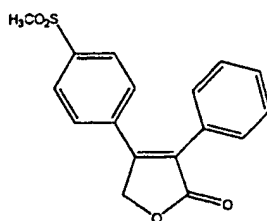
4)



4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-
pyrazol-1-yl]-benzenesulfonamide,

-200-

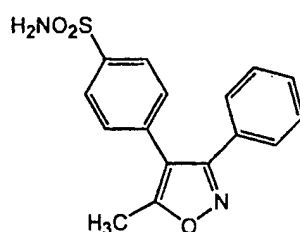
5)



rofecoxib, 4-(4-(methylsulfonyl)phenyl)-3-phenyl-2(5H)-furanone,

5

6)

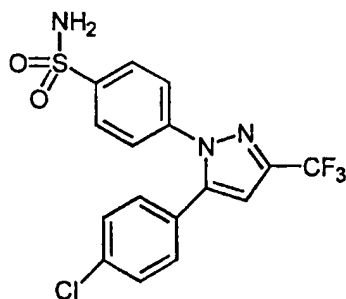


4-(5-methyl-3-phenylisoxazol-4-yl)benzenesulfonamide,

7) N-[[4-(5-methyl-3-phenylisoxazol-4-yl)phenyl]sulfonyl]propanamide,

10

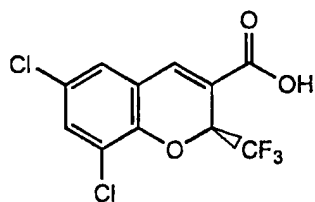
8)



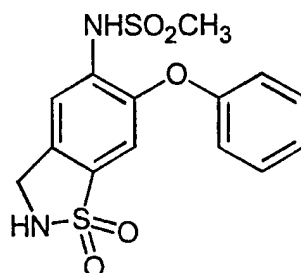
4-[5-(4-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazole-1-yl]benzenesulfonamide,

-201-

9)

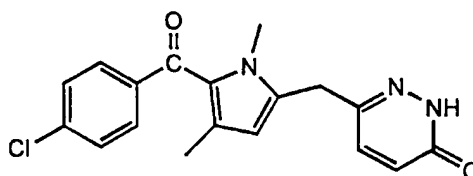


10)



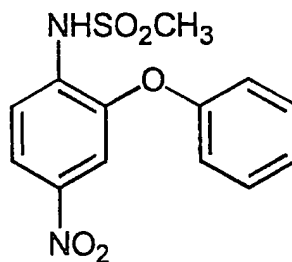
5

11)



6-[[5-(4-chlorobenzoyl)-1,4-dimethyl-1H-pyrrol-2-yl]methyl]-3(2H)-pyridazinone,

12)

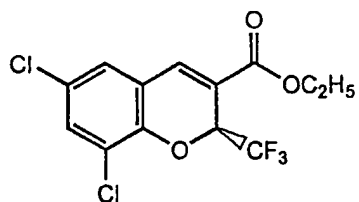


10

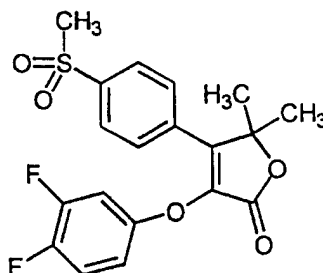
N-(4-nitro-2-phenoxyphenyl)methanesulfonamide,

-202-

13)



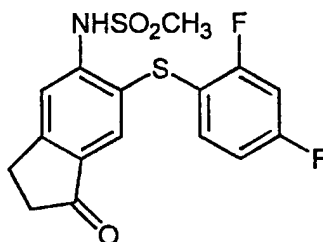
14)



5

3-(3,4-difluorophenoxy)-5,5-dimethyl-4-[4-(methylsulfonyl)phenyl]-2(5H)-furanone,

15)

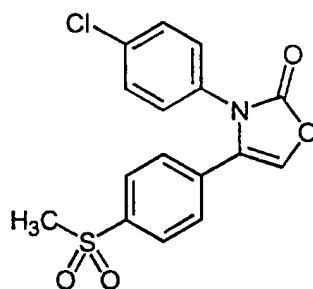


10

N-[6-[(2,4-difluorophenyl)thio]-2,3-dihydro-1-oxo-1H-inden-5-yl]methanesulfonamide,

-203-

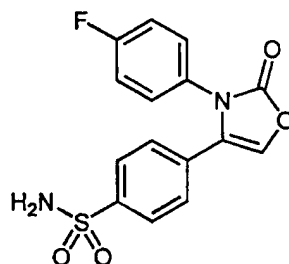
16)



3-(4-chlorophenyl)-4-[4-(methylsulfonyl)phenyl]-2(3H)-oxazolone,

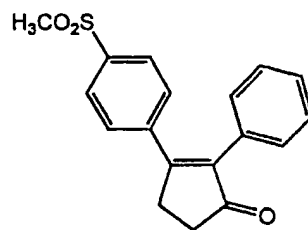
5

17)



4-[3-(4-fluorophenyl)-2,3-dihydro-2-oxo-4-oxazolyl]benzenesulfonamide,

18)

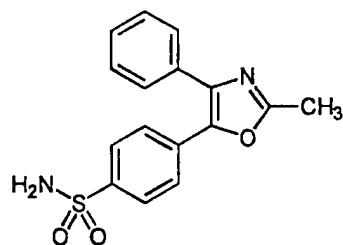


10

3-[4-(methylsulfonyl)phenyl]-2-phenyl-2-cyclopenten-1-one,

-204-

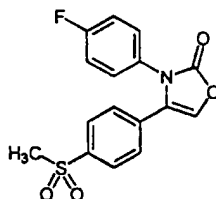
19)



4-(2-methyl-4-phenyl-5-oxazolyl)benzenesulfonamide,

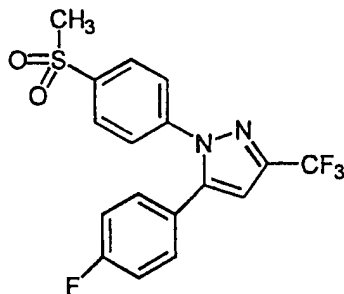
5

20)



3-(4-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]-2(3H)-oxazolone,

21)

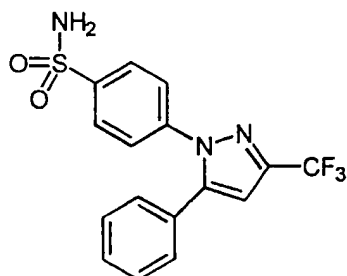


10

5-(4-fluorophenyl)-1-[4-(methylsulfonyl)phenyl]-3-(trifluoromethyl)-1H-pyrazole,

-205-

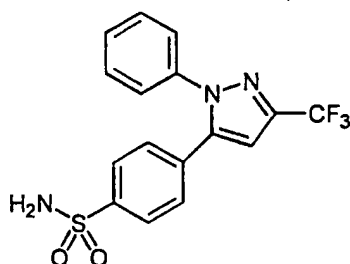
22)



4-[5-phenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

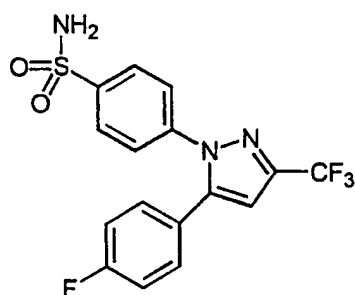
5

23)



4-[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]benzenesulfonamide,

24)

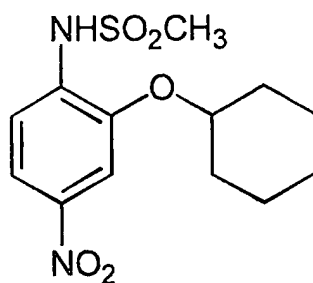


10

4-[5-(4-fluorophenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

-206-

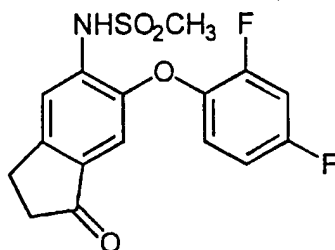
25)



N-[2-(cyclohexyloxy)-4-nitrophenyl]methanesulfonamide,

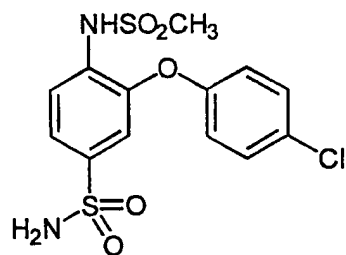
5

26)



N-[6-(2,4-difluorophenoxy)-2,3-dihydro-1-oxo-1H-inden-5-yl]methanesulfonamide,

27)

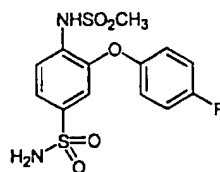


10

3-(4-chlorophenoxy)-4-[(methanesulfonyl)amino]benzenesulfonamide,

-207-

28)

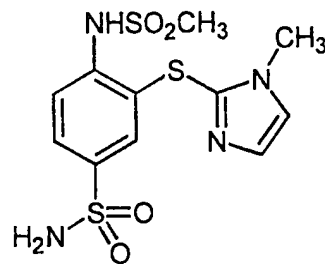


3-((4-fluorophenoxy)methyl)-4-

[(methylsulfonyl)amino]benzenesulfonamide,

5

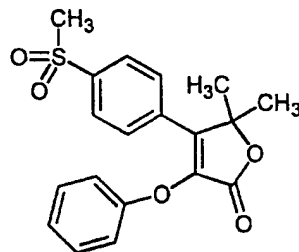
29)



3-[(1-methyl-1H-imidazol-2-yl)thio]-4-

[(methylsulfonyl)amino]benzenesulfonamide,

30)

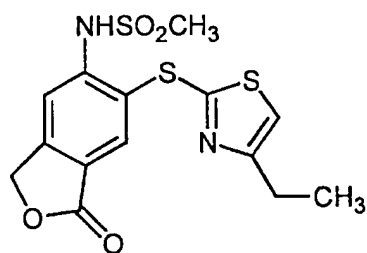


10

5,5-dimethyl-4-[4-(methylsulfonyl)phenyl]-3-
phenoxy-2(5H)-furanone,

-208-

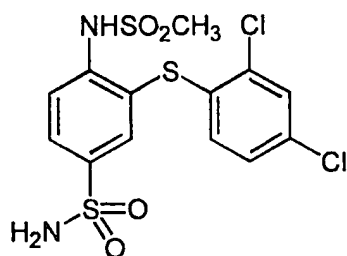
31)



N-[6-[(4-ethyl-2-thiazolyl)thio]-1,3-dihydro-
1-oxo-5-isobenzofuranyl]methanesulfonamide,

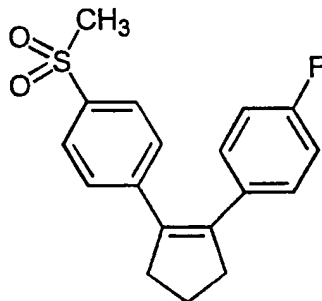
5

32)



3-[(2,4-dichlorophenyl)thio]-4-
[(methanesulfonyl)amino]benzenesulfonamide,

33)

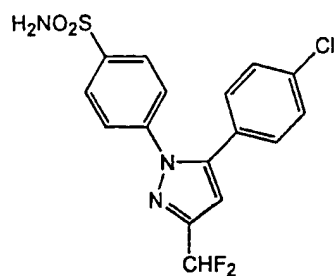


10

1-fluoro-4-[2-[4-
(methanesulfonyl)phenyl]cyclopenten-1-
yl]benzene,

-209-

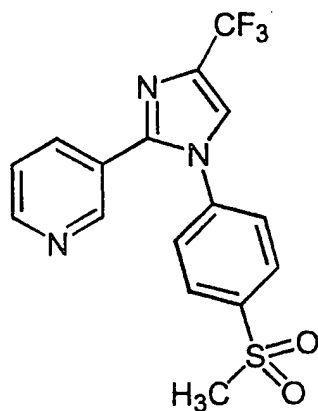
34)



4-[5-(4-chlorophenyl)-3-(difluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

5

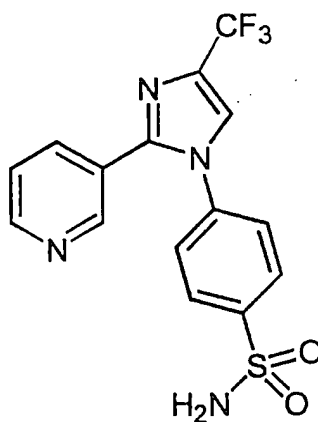
35)



3-[1-[4-(methylsulfonyl)phenyl]-4-(trifluoromethyl)-1H-imidazol-2-yl]pyridine,

-210-

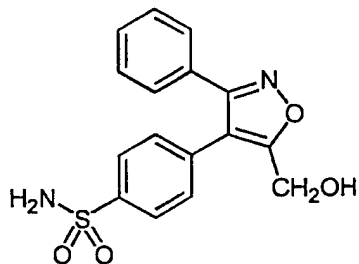
36)



4-[2-(3-pyridinyl)-4-(trifluoromethyl)-1H-imidazol-1-yl]benzenesulfonamide,

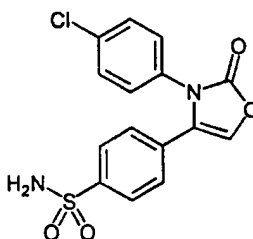
5

37)



4-[5-(hydroxymethyl)-3-phenylisoxazol-4-yl]benzenesulfonamide,

38)

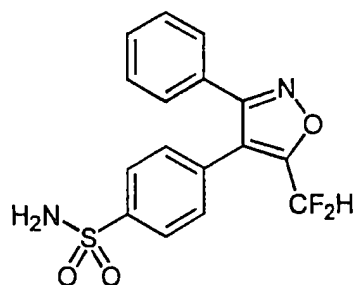


10

4-[3-(4-chlorophenyl)-2,3-dihydro-2-oxo-4-oxazolyl]benzenesulfonamide,

-211-

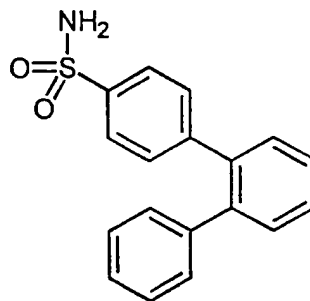
39)



4-[5-(difluoromethyl)-3-phenylisoxazol-4-yl]benzenesulfonamide,

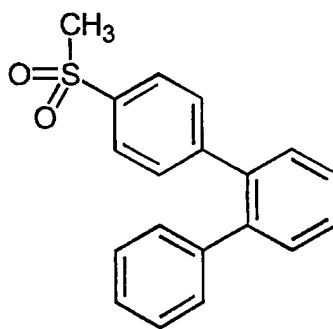
5

40)



[1,1':2',1''-terphenyl]-4-sulfonamide,

41)

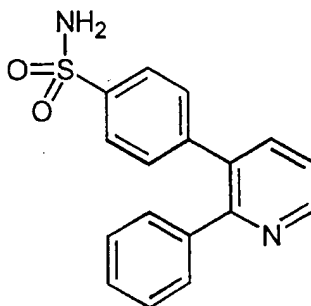


10

4-(methylsulfonyl)-1,1',2],1''-terphenyl,

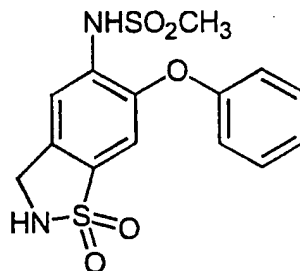
-212-

42)



4-(2-phenyl-3-pyridinyl)benzenesulfonamide,

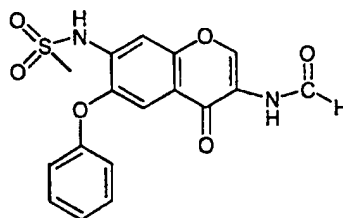
43)



5

N-(2,3-dihydro-1,1-dioxido-6-phenoxy-1,2-benzisothiazol-5-yl)methanesulfonamide, and

44)

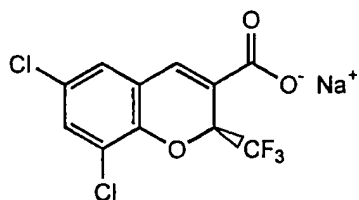


10

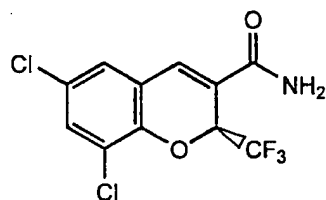
N-[3-(formylamino)-4-oxo-6-phenoxy-4H-1-benzopyran-7-yl]methanesulfonamide,

-213-

45)

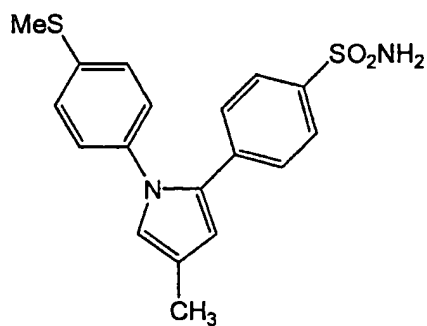


46)



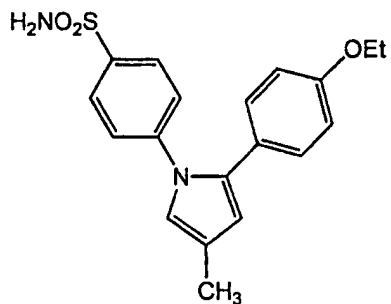
5

47)



, and

48)

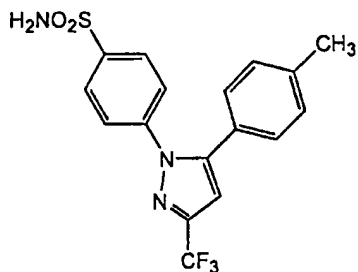


47. The method of Claim 44 wherein the
10 cyclooxygenase-2 inhibitor is 5-chloro-3-(4-(methanesulfonyl)phenyl)-2-(methyl-5-pyridinyl)pyridine.

-214-

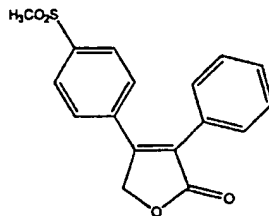
48. The method of Claim 44 wherein the cyclooxygenase-2 inhibitor is 2-(3,5-difluorophenyl)-3-4-(methylsulfonyl)phenyl)-2-cyclopenten-1-one.

49. The method of Claim 44 wherein the
5 cyclooxygenase-2 inhibitor is



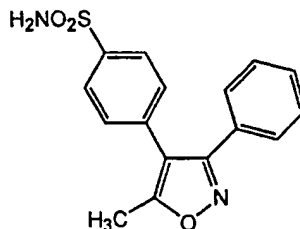
4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide.

50. The method of Claim 44 wherein the
10 cyclooxygenase-2 inhibitor is



rofecoxib, 4-(4-(methylsulfonyl)phenyl)-3-phenyl-2(5H)-furanone.

51. The method of Claim 44 wherein the
15 cyclooxygenase-2 inhibitor is

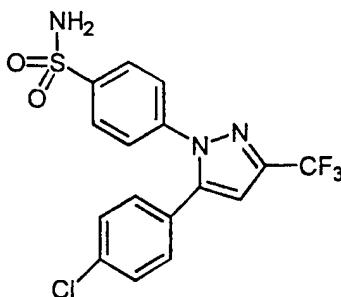


4-(5-methyl-3-phenylisoxazol-4-yl)benzenesulfonamide.

-215-

52. The method of Claim 44 wherein the cyclooxygenase-2 inhibitor is N-[[4-(5-methyl-3-phenylisoxazol-4-yl)phenyl]sulfonyl]propanamide.

53. The method of Claim 44 wherein the
5 cyclooxygenase-2 inhibitor is



4-[5-(4-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazole-1-yl]benzenesulfonamide.

54. The method of Claim 44 wherein the
10 antineoplastic agent is anastrozole.

55. The method of Claim 44 wherein the antineoplastic agent is calcium carbonate.

56. The method of Claim 44 wherein the antineoplastic agent is capecitabine.

15 57. The method of Claim 44 wherein the antineoplastic agent is carboplatin.

58. The method of Claim 44 wherein the antineoplastic agent is cisplatin.

59. The method of Claim 44 wherein the
20 antineoplastic agent is Cell Pathways CP-461.

60. The method of Claim 44 wherein the antineoplastic agent is cyclophosphamide.

61. The method of Claim 44 wherein the antineoplastic agent is docetaxel.

25 62. The method of Claim 44 wherein the antineoplastic agent is doxorubicin.

-216-

63. The method of Claim 44 wherein the antineoplastic agent is etoposide.

64. The method of Claim 44 wherein the antineoplastic agent is fluorouracil (5-FU).

5 65. The method of Claim 44 wherein the antineoplastic agent is fluoxymestrine.

66. The method of Claim 44 wherein the antineoplastic agent is gemcitabine.

10 67. The method of Claim 44 wherein the antineoplastic agent is goserelin.

68. The method of Claim 44 wherein the antineoplastic agent is irinotecan.

69. The method of Claim 44 wherein the antineoplastic agent is ketoconazole.

15 70. The method of Claim 44 wherein the antineoplastic agent is letrozol.

71. The method of Claim 44 wherein the antineoplastic agent is leucovorin.

20 72. The method of Claim 44 wherein the antineoplastic agent is levamisole.

73. The method of Claim 44 wherein the antineoplastic agent is megestrol.

74. The method of Claim 44 wherein the antineoplastic agent is mitoxantrone.

25 75. The method of Claim 44 wherein the antineoplastic agent is paclitaxel.

76. The method of Claim 44 wherein the antineoplastic agent is raloxifene.

30 77. The method of Claim 44 wherein the antineoplastic agent is retinoic acid.

-217-

78. The method of Claim 44 wherein the antineoplastic agent is tamoxifen.

79. The method of Claim 44 wherein the antineoplastic agent is thiotepa.

5 80. The method of Claim 44 wherein the antineoplastic agent is topotecan.

81. The method of Claim 44 wherein the antineoplastic agent is toremifene.

82. The method of Claim 44 wherein the
10 antineoplastic agent is vinorelbine.

83. The method of Claim 44 wherein the antineoplastic agent is vinblastine.

84. The method of Claim 44 wherein the antineoplastic agent is vincristine.

15 85. The method of Claim 44 wherein the antineoplastic agent is selenium (selenomethionine).

86. The method of Claim 44 wherein the antineoplastic agent is ursodeoxycholic acid.

87. The method of Claim 44 wherein the
20 antineoplastic agent is sulindac sulfone.

88. The method of Claim 44 wherein the antineoplastic agent is eflornithine (DFMO).

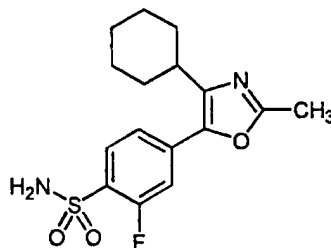
89. The method of Claim 44 wherein the neoplasia is selected from the group consisting of lung cancer,
25 breast cancer, gastrointestinal cancer, bladder cancer, head and neck cancer and cervical cancer.

90. A combination comprising a cyclooxygenase-2 inhibitor and one or more antineoplastic agents, wherein said antineoplastic
30 agents are selected from the group consisting of anastrozole, calcium carbonate, capecitabine,

carboplatin, cisplatin, Cell Pathways CP-461,
docetaxel, doxorubicin, etoposide flouxymestrine,
gemcitabine, goserelin, irinotecan, ketoconazole,
letrozol, leucovorin, levamisole, megestrol,
mitoxantrone, paclitaxel, raloxifene, retinoic
acid, tamoxifen, thiotepa, topotecan, toremifene,
vinorelbine, vinblastine, vincristine, selenium
(selenomethionine), sulindac sulfone, exemestane
and eflornithine (DFMO).

10 91. The combination of Claim 90 wherein the cyclooxygenase-2 inhibitor is selected from compounds, and their pharmaceutically acceptable salts thereof, of the group consisting of:

1)



JTE-522, 4-(4-cyclohexyl-2-methyloxazol-5-yl)-
2-fluorobenzenesulfonamide,

2)

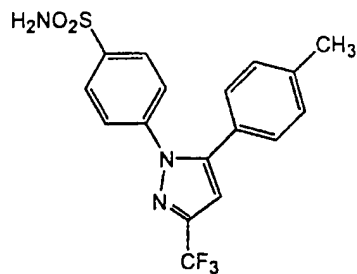
5-chloro-3-(4-(methylsulfonyl)phenyl)-2-(methyl-5-pyridinyl)pyridine,

3)

2-(3,5-difluorophenyl)-3-4-(methylsulfonyl)phenyl)-2-cyclopenten-1-one,

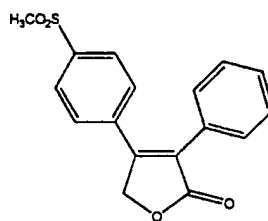
4)

-219-



4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide,

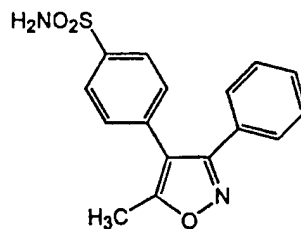
5)



5

rofecoxib, 4-(4-(methylsulfonyl)phenyl)-3-phenyl-2(5H)-furanone,

6)



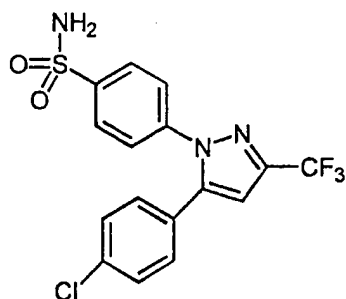
10

4-(5-methyl-3-phenylisoxazol-4-yl)benzenesulfonamide,

7) N-[[4-(5-methyl-3-phenylisoxazol-4-yl)phenyl]sulfonyl]propanamide,

-220-

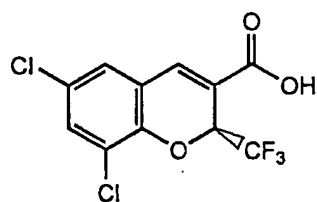
8)



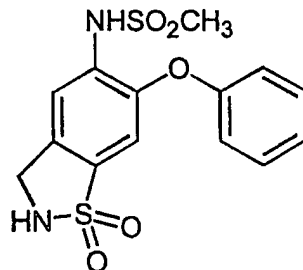
4-[5-(4-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazole-1-yl]benzenesulfonamide,

5

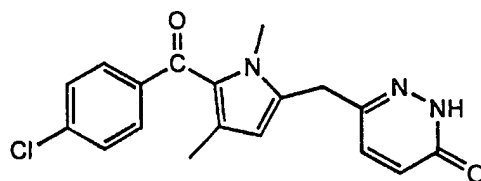
9)



10)



11)

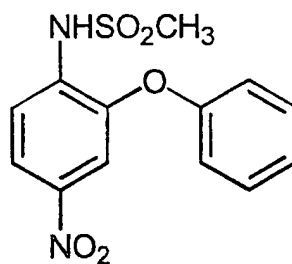


10

6-[[5-(4-chlorobenzoyl)-1,4-dimethyl-1H-pyrrol-2-yl]methyl]-3(2H)-pyridazinone,

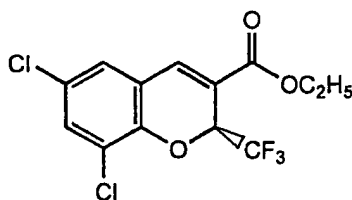
-221-

12)



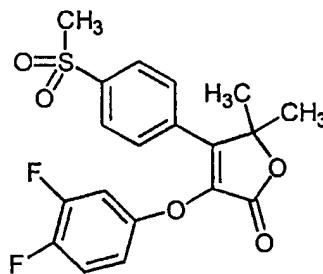
N-(4-nitro-2-phenoxyphenyl)methanesulfonamide,

13)



5

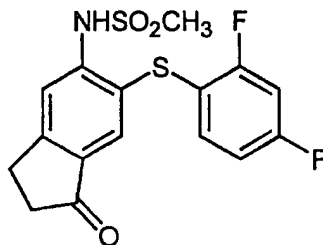
14)



3-(3,4-difluorophenoxy)-5,5-dimethyl-4-[4-(methylsulfonyl)phenyl]-2(5H)-furanone,

10

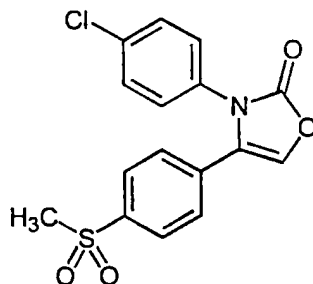
15)



N-[6-[(2,4-difluorophenyl)thio]-2,3-dihydro-1-oxo-1H-inden-5-yl]methanesulfonamide,

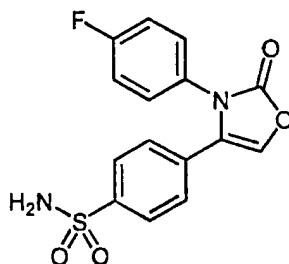
16)

-222-



3-(4-chlorophenyl)-4-[4-(methylsulfonyl)phenyl]-2(3H)-oxazolone,

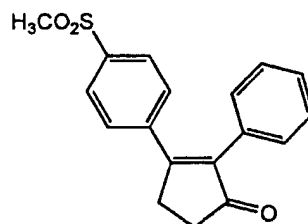
17)



5

4-[3-(4-fluorophenyl)-2,3-dihydro-2-oxo-4-oxazolyl]benzenesulfonamide,

18)

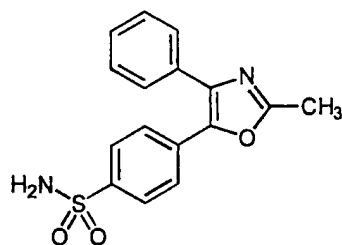


10

3-[4-(methylsulfonyl)phenyl]-2-phenyl-2-cyclopenten-1-one,

-223-

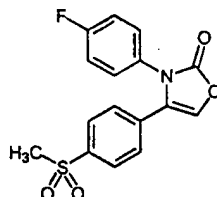
19)



4-(2-methyl-4-phenyl-5-oxazolyl)benzenesulfonamide,

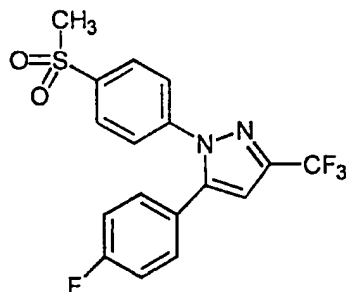
5

20)



3-(4-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]-2(3H)-oxazolone,

21)

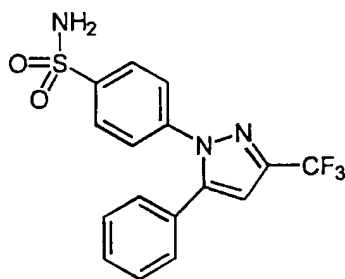


10

5-(4-fluorophenyl)-1-[4-(methylsulfonyl)phenyl]-3-(trifluoromethyl)-1H-pyrazole,

-224-

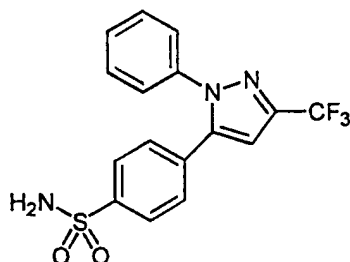
22)



4-[5-phenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

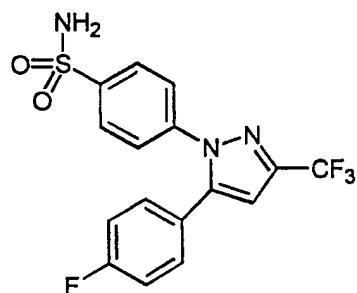
5

23)



4-[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]benzenesulfonamide,

24)

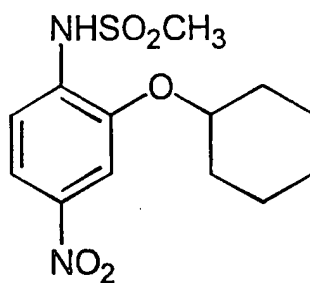


10

4-[5-(4-fluorophenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

-225-

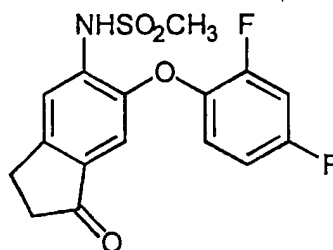
25)



N-[2-(cyclohexyloxy)-4-nitrophenyl]methanesulfonamide,

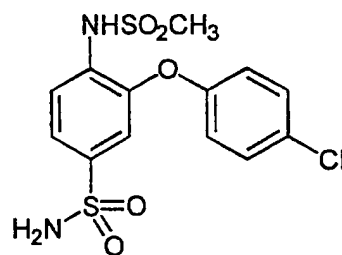
5

26)



N-[6-(2,4-difluorophenoxy)-2,3-dihydro-1-oxo-1H-inden-5-yl]methanesulfonamide,

27)

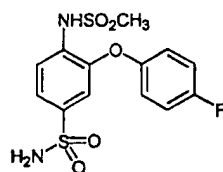


10

3-(4-chlorophenoxy)-4-[(methanesulfonyl)amino]benzenesulfonamide,

-226-

28)

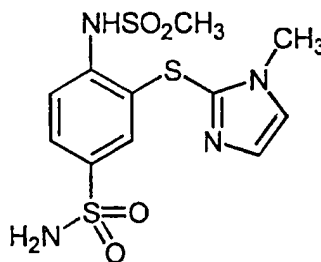


3-(4-fluorophenoxy)-4-

[(methylsulfonyl)amino]benzenesulfonamide,

5

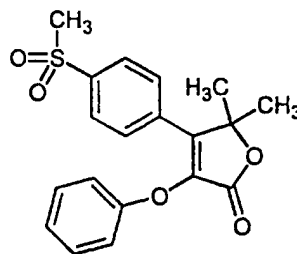
29)



3-[(1-methyl-1H-imidazol-2-yl)thio]-4

[(methylsulfonyl)amino]benzenesulfonamide,

30)

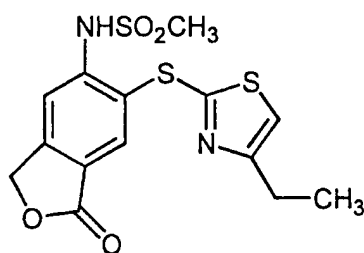


10

5,5-dimethyl-4-[4-(methylsulfonyl)phenyl]-3-phenoxy-2(5H)-furanone,

-227-

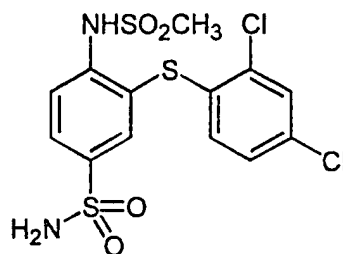
31)



N-[6-[(4-ethyl-2-thiazolyl)thio]-1,3-dihydro-1-oxo-5-isobenzofuranyl]methanesulfonamide,

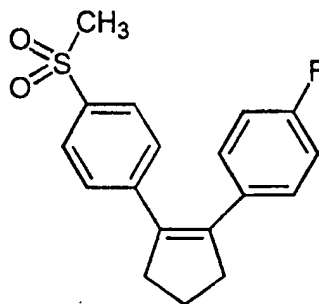
5

32)



3-[(2,4-dichlorophenyl)thio]-4-[(methanesulfonyl)amino]benzenesulfonamide,

33)

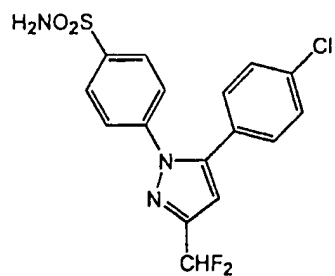


10

1-fluoro-4-[2-[4-(methanesulfonyl)phenyl]cyclopenten-1-yl]benzene,

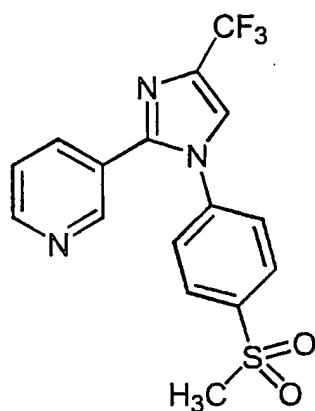
34)

-228-



4-[5-(4-chlorophenyl)-3-(difluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide,

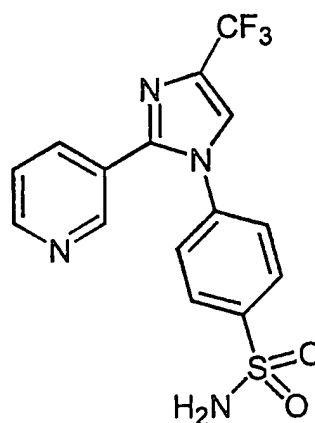
35)



5

3-[1-[4-(methylsulfonyl)phenyl]-4-(trifluoromethyl)-1H-imidazol-2-yl]pyridine,

36)

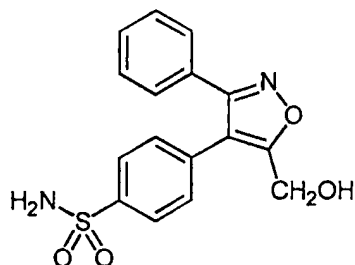


10

4-[2-(3-pyridinyl)-4-(trifluoromethyl)-1H-imidazol-1-yl]benzenesulfonamide,

-229-

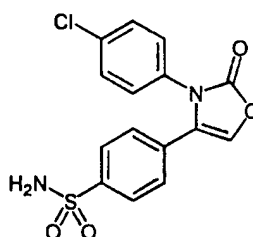
37)



4-[5-(hydroxymethyl)-3-phenylisoxazol-4-yl]benzenesulfonamide,

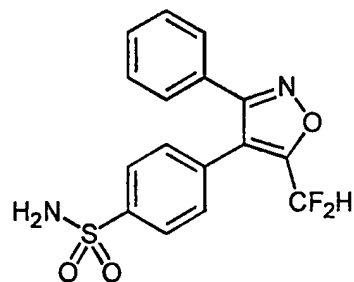
5

38)



4-[3-(4-chlorophenyl)-2,3-dihydro-2-oxo-4-oxazolyl]benzenesulfonamide,

39)

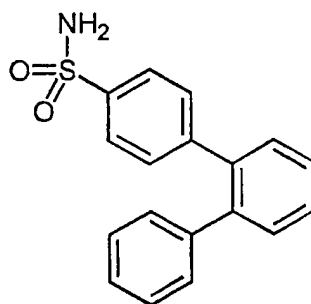


10

4-[5-(difluoromethyl)-3-phenylisoxazol-4-yl]benzenesulfonamide,

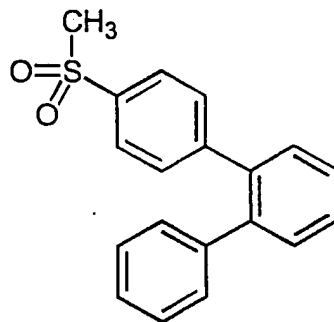
-230-

40)



[1,1':2',1''-terphenyl]-4-sulfonamide,

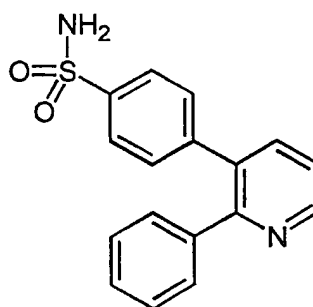
41)



5

4-(methylsulfonyl)-1,1',2],1''-terphenyl,

42)

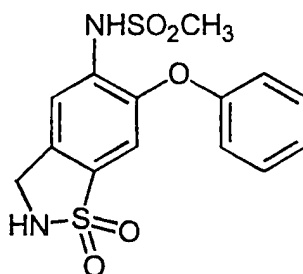


4-(2-phenyl-3-pyridinyl)benzenesulfonamide,

10

-231-

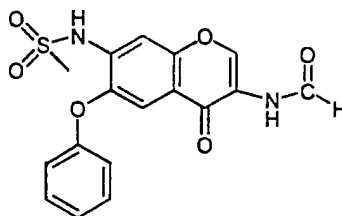
43)



N-(2,3-dihydro-1,1-dioxido-6-phenoxy-1,2-benzisothiazol-5-yl)methanesulfonamide, and

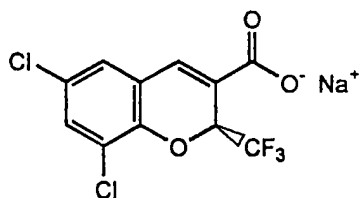
5

44)



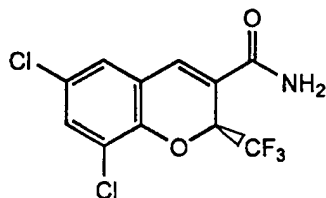
N-[3-(formylamino)-4-oxo-6-phenoxy-4H-1-benzopyran-7-yl]methanesulfonamide,

45)



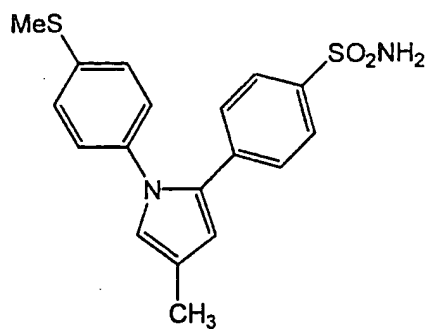
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46)



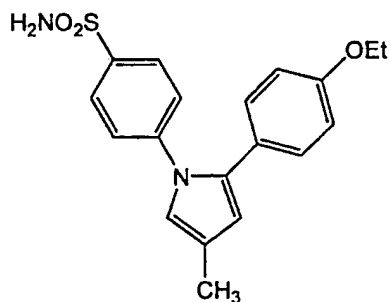
-232-

47)



, and

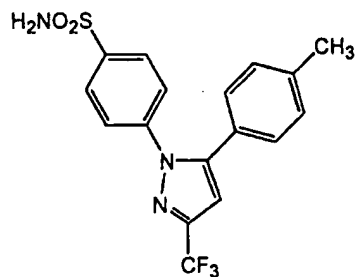
48)



5 92. The combination of Claim 90 wherein the cyclooxygenase-2 inhibitor is 5-chloro-3-(4-(methylsulfonyl)phenyl)-2-(methyl-5-pyridinyl)pyridine.

93. The combination of Claim 90 wherein the cyclooxygenase-2 inhibitor is 2-(3,5-difluorophenyl)-3-
10 4-(methylsulfonyl)phenyl)-2-cyclopenten-1-one.

94. The combination of Claim 90 wherein the cyclooxygenase-2 inhibitor is

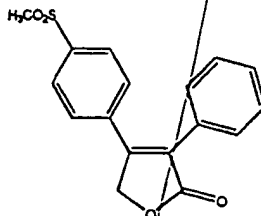


4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide.

15

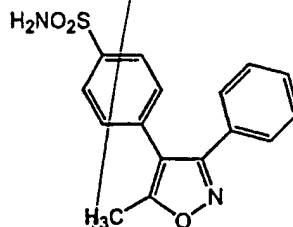
-233-

95. The combination of Claim 90 wherein the cyclooxygenase-2 inhibitor is



rofecoxib, 4-(4-(methylsulfonyl)phenyl)-3-phenyl-2(5H)-furanone.

96. The combination of Claim 90 wherein the cyclooxygenase-2 inhibitor is



4-(5-methyl-3-phenylisoxazol-4-yl)benzenesulfonamide.

91. The method of Claim 1 wherein the antineoplastic agent is anastrozole.

92. The method of Claim 1 wherein the antineoplastic agent is calcium carbonate.

93. The method of claim 1 wherein the antineoplastic agent is exemestane.

94. The method of claim 44 wherein the antineoplastic agent is exemestane.

95. The method of claim 90 wherein the antineoplastic agent is exemestane.

98. The method of Claim 44 wherein the combination is administered in a sequential manner.

Sub
All

6 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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99. The method of Claim 44 wherein the combination is administered in a substantially simultaneous manner.